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APPLICATION NO.	ı	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,924		07/03/2003	Michael E. St. Lawrence	RGP-0116 4673	
23413	7590	02/09/2006		EXAMINER	
CANTOR		•	ERDEM, FAZLI		
55 GRIFFI	N ROAD S	SOUTH		<u></u>	
BLOOMFI	ELD, CT	06002		ART UNIT	PAPER NUMBER
	·			2826	
			DATE MAILED: 02/09/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/613,924	ST. LAWRENCE ET A	L. (1/10)
Office Action Summary	Examiner	Art Unit	
	Fazli Erdem	2826	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addres	is
 A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vortice. Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this commu D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 23 N	ovember 2005.		
<i>;</i> —	action is non-final.		
3) Since this application is in condition for allowar			nts is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-3,5,6,8-11,13-16 and 18-68 is/are p 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 19-26,29-36 and 55-68 is/are allowed 6) ☐ Claim(s) 1-3,5,6,8,10,11,14-16,27,28,37-43 and 7) ☐ Claim(s) 9,13,18,44 and 54 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. <u>d 45-53</u> is/are rejected.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the following(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stag	ge
Attachment(s)	A\	(DTO 442)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:)

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 19-26, 29-36, and 55-68 allowed.
- 2. Claims 9, 13, 18, 44 and 54 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 5, 6, 8, 10, 11, 14-16, 27, 28, 37-43 and 45-53 rejected under 35 U.S.C. 103(a) as being unpatentable over Shaw et al. (5,125,138) in view of Schoenfeld et al. (6,180,025) further in view of St. Lawrence et al (5,571,609)

Regarding Claims 1-3, 5, 6, 8, 10, 11, 14-16, 27, 28, 37-43 and 45-53, Shaw et al. disclose a miniaturized monolithic multi-layer capacitor and apparatus and method for making same where in Figs. 1 and 4a, it is polymer dielectric layers 16 disposed on conductive layers 15. Shaw et al. fail to disclose the dielectric polymer layer to be crosslinkable liquid crystalline polymer of required group and the required fibrous web/particulate filler form of the dielectric configuration. However, Schoenfeld et al. disclose infra-red reflecting colorants where in columns 2, 5 and 6 and in claims 1, 2, 3, 9, 10, 11 and 12, the required crosslinkable liquid crystalline polymer comprising phenyl

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group is disclosed. Furthermore, St. Lawrence et al. disclose a polybutadiene and polyisoprene based thermosetting compsositions and method of manufacture thereof where in Fig. 2, the required fibrous web form of the dielectric structure is disclosed.

Regarding Claims 2, 11, 16, 20, 28 and 38, the layer 13 in Shaw et al. is copper.

Regarding Claims 3, 5, 50 and 51, dielectric layer of St Lawrence, could be both flowable or non-flowable when crosslinked as disclosed in column 2 and in colums 36 and 37.

Regarding Claims 6, 37 and 45, Shaw et al. disclose a multi-layer structure with and conductive layer of copper.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required crosslinkable liquid crystal polymer of phenyl group type in Shaw et al. as taught by Schoenfeld et al. in order to have a multi-layer circuit structure with increased reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE February 5, 2006